

**CARDIAC PACING USING ADJUSTABLE
ATRIO-VENTRICULAR DELAYS**

5

Abstract

A pacing system for providing optimal hemodynamic cardiac function for parameters such as contractility (peak left ventricle pressure change during systole or $LV+dp/dt$), or stroke volume (aortic pulse pressure) using system for calculating atrio-ventricular delays for optimal timing of a ventricular pacing pulse. The system
10 providing an option for near optimal pacing of multiple hemodynamic parameters. The system deriving the proper timing using electrical or mechanical events having a predictable relationship with an optimal ventricular pacing timing signal.

"Express Mail" mailing label number: EV332571033US

Date of Deposit: July 7, 2003

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O.Box 1450, Alexandria, VA 22313-1450.